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(54) Title: BIOTHERAPEUTICS FOR MITIGATION OF HEALTH DISORDERS FROM TERMINALIA ARJUNA

(57) Abstract: The present invention relates to a series of metabolites, which were isolated from *Terminalia arjuna* and characterized for therapeutically relevant molecules to be used in treatment of various health related disorders like cardiovascular disorders and as antibacterial agents. The extracts from the plants were subjected to both, targeted and non-targeted screening procedures. The present invention also relates to a series of extracts exhibiting significant antioxidant potential, as indicated by the DPPH free radical scavenging and reducing potential, thereby extrapolating to its card ioprotective function. The broad-spectrum activity of *Terminalia arjuna* extracts against the microorganisms tested potentiates its application as an anti-microbial agent.